AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) A method for making a connection for composite pipe comprising:
   attaching a connector having at least one liner trap and at least one trap to a liner portion of a segment of composite pipe, the pipe comprising a plurality of filament fibers wound around the liner;
   winding the plurality of filament fibers across the connector;
   compressing the plurality of filament fibers over the at least one trap; and
   curing a binder which impregnates the filament fiber, wherein tension is continuously maintained on the filament fibers across the at least one trap during winding and curing, so that the fibers forming the outer surface of the segment of composite pipe lack a microscopic waviness.

2. (Original) The method as defined in claim 1 wherein the fibers initially bridge the at least one trap.

3. (Original) The method as defined in claim 1 wherein the compressing comprises wrapping the fibers proximate the at least one trap with a fiber hoop wrap.

4. (Original) The method as defined in claim 3 wherein the fiber hoop wrap comprises a material having a negative coefficient of thermal expansion.

5. (Original) The method as defined in claim 1 further comprising wrapping the trap area with heat shrinkable tape and heating the tape.

6. (Original) The method as defined in claim 2 wherein the connector comprises a plurality of traps, the filament fibers wound under tension so that each of the traps is initially bridged by the filament fibers.

7. (Original) The method as defined in claim 6 further comprising compressing the filament fibers in each of the traps prior to curing the binder.

8. (Original) The method as defined in claim 7 wherein the compressing comprises wrapping the fibers in each of the traps with a fiber hoop wrap.

9. (Currently Amended) The method as defined in claim 8 ~~claim 6~~ wherein each of the hoop wraps has an elastic modulus related to its position with respect to an end of the connector.

10. (Original) The method as defined in claim 6 wherein a flank angle of each trap is related to the position of each trap with respect to an end of the connector.

11. (Original) The method as defined in claim 6 wherein a depth of each trap is related to the position of each trap with respect to an end of the connector.

11A. (Canceled)

12. (Original) The method as defined in claim 6 wherein a width of each trap is related to the position of each trap with respect to an end of the connector.

13. – 23. (Canceled)

24. (New) The method of claim 1, wherein the attaching comprises:

heating an end of the liner to approximately 50-60% of a softening temperature of the liner;

inserting the connector into an interior of the liner such that the liner overlays the at least one liner trap on the connector;

cooling the liner;

winding hoop wraps over the liner portion overlaying the at least one liner trap; and

curing a resin impregnated in the hoop wraps.

25. (New) The method of claim 1, further comprising installing an o-ring seal on the connector.

26. (New) The method of claim 1, wherein the filament fibers are not truncated prior to the curing.

27. (New) A method for making a connection for composite pipe comprising:

attaching a connector having at least one trap to a liner portion of a segment of composite pipe, the pipe comprising a plurality of filament fibers wound around the liner;

winding the plurality of filament fibers across the connector and on to a tensioning ring;

tensioning the filament fibers using the tensioning ring;

compressing the plurality of filament fibers over the at least one trap; and

curing a binder which impregnates the filament fiber, wherein tension is continuously maintained on the filament fibers across the at least one trap during winding and curing, so that the fibers forming the outer surface of the segment of composite pipe lack a microscopic waviness.

28. (New) The method of claim 27, wherein the tensioning comprises moving the tensioning ring axially away from the composite pipe.

29. (New) The method of claim 28, further comprising moving the tensioning ring to an axial position nearer the composite pipe and truncating the filament fibers.

30. (New) The method of claim 27, wherein the compressing comprises wrapping the fibers in each of the traps with a fiber hoop wrap, wherein the fiber hoop wrap comprises a material having a negative coefficient of thermal expansion.

31. (New) The method of claim 27, wherein the attaching comprises:

heating an end of the liner to approximately 50-60% of a softening temperature of the liner;

inserting the connector into an interior of the liner such that the liner overlays at least one liner trap on the connector;

cooling the liner;

winding hoop wraps over the liner portion overlaying the at least one liner trap; and

curing a resin impregnated in the hoop wraps.

32. (New) The method of claim 27, wherein the connector comprises a plurality of traps, and wherein the filament fibers are tensioned with the tensioning ring such that each of the traps is bridged by the filament fibers prior to compression.

33. (New) The method of claim 32, further comprising:

compressing the filament fibers in each of the traps prior to curing the binder;

wherein the compressing comprises wrapping the fibers in each of the traps with a fiber hoop wrap; and

wherein each of the hoop wraps has an elastic modulus related to its position with respect to an end of the connector.

34. (New) The method of claim 27, further comprising installing an o-ring seal on the connector, wherein the liner overlays the o-ring seal and at least one trap on the connector.